
Aeronavtika i Kabelski i evlji in spojne tulke za spajanje s stiskanjem na električ ne vodnike i 012. del: Spojne tulke, izolirane in hermetič ne, za spajanje s stiskanjem na bakrene vodnike, temperature do 150 °C i Standard za proizvod

Aerospace series - Terminal lugs and in-line splices for crimping on electric conductors - Part 012: In-line splices, insulated and sealed, for crimping on copper conductors, temperature up to 150 °C - Product standard

Luft- und Raumfahrt - Kabelschuhe und Stossverbinder zum Crimpen auf elektrischen Leitungen - Teil 012: Stossverbinder isoliert und abgedichtet, zum Crimpen auf Leitungen aus Kupfer, für Temperaturen bis 150 °C - Produktnorm

Série aérospatiale - Cosses et prolongateurs pour sertissage sur conducteurs électriques - Partie 012 : Prolongateurs isolés pour sertissage sur conducteurs en cuivre, température jusqu' a 150 °C - Norme de produit

Ta slovenski standard je istoveten z: EN 3373-012:2005

ICS:

49.060

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English Version

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Leitungen aus Kupfer, für Temperaturen bis 150 °C -
Produktnorm

This European Standard was approved by CEN on 28 October 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This European Standard (EN 3373-012:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2006, and conflicting national standards shall be withdrawn at the latest by June 2006.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard defines the characteristics of sealed, insulated, tin plated, in-line splices for crimping on tin or silver plated copper conductors and nickel plated in-line splices for crimping on nickel plated copper conductors. They may be used at temperatures up to 150 °C maximum.

This standard shall be used in conjunction with EN 3373-001.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2083, *Aerospace series – Copper or copper alloy conductors in electrical cables – Product standard*.

EN 2591-305, *Aerospace series – Elements of electrical and optical connection – Test methods – Part 305: Rapid change of temperature*.

EN 3373-001, *Aerospace series – Terminal lugs and in-line splices for crimping on electric conductors – Part 001: Technical specification*. ¹⁾

MIL-DTL-22520/37: September 1997, *Crimping tool, electrical, wire splicing, hand actuated, Type II, for environmental splices, wire range 26-12 AWG*. ²⁾

ASTM B 545 - 97, *Standard specification for electrodeposited coatings of tin*. ³⁾

ASTM B 75, *Standard specification for seamless copper tube*. ³⁾

QQ-N-290A, *Nickel plating (Electrodeposited)*. ⁴⁾

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 3373-001 apply.

4 Characteristics

4.1 Temperature range

The operational range for the assemblies specified is – 65 °C to 150 °C.

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- 1) Published as AECMA Prestandard at the date of publication of this standard.
 - 2) Available from: Department of Defence (DOD), the Pentagon, Washington D.C. 20301 USA.
 - 3) Available from ASTM, 100 Barr Harbor, West Conshohocken, PA 19428, USA.
 - 4) Available from Naval Air Systems Command, Highway 547, Lakehurst, NJ 08733-5100.

4.2 Materials

4.2.1 Insulating sleeve

The outer insulating and sealing sleeve shall be radiation cross-linked polyvinylidene fluoride with meltable sealing rings of uncrosslinked polyolefin compound at each end.

4.2.2 Crimp barrel

The crimp barrel shall be copper alloy ASTM B 75.

4.2.3 Plating of crimp barrel

The plating of the crimp barrel shall be tin in accordance with ASTM B 545 or nickel as per QQ-N-290A.

4.3 Dimensions and mass

For dimensions and mass, see Figure 1 and Tables 1 and 2.

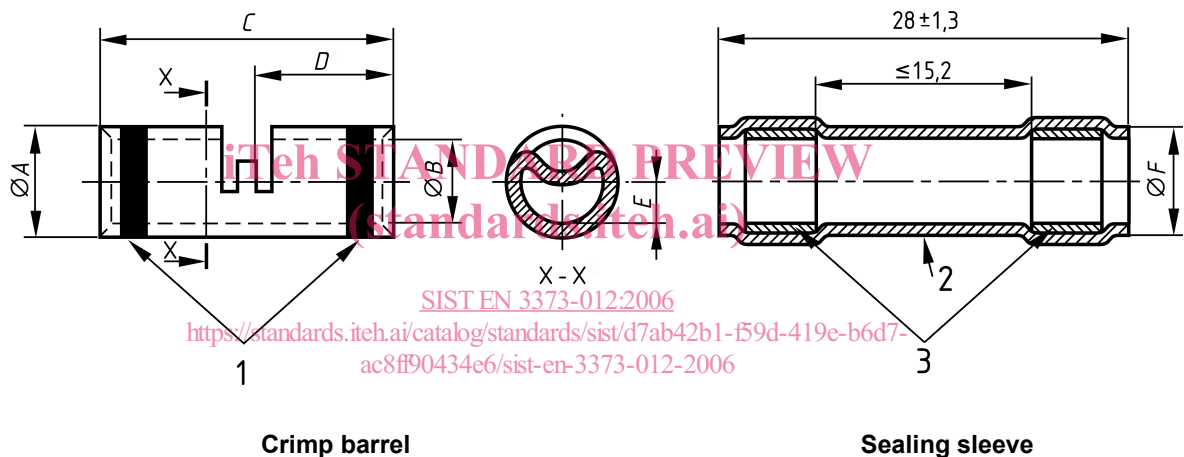


Figure 1 — Crimp barrel and sealing sleeve

Table 1 — Barrel plating, conductor range and colour codes

Item code	Plating on barrel	Colour code bands	Range of conductors as per EN 2083		Mass g/1 000 parts
			EN Codes	AWG	
001	Tin	1 Red	001 – 006	26 – 20	463
002	Tin	1 Blue	006 – 012	20 – 16	731
003	Tin	1 Yellow	010 – 030	18 – 12	1 235
004	Nickel	2 Red	001 – 006	26 – 20	463
005	Nickel	2 Blue	006 – 012	20 – 16	731
006	Nickel	2 Yellow	010 – 030	18 – 12	1 235

Table 2 — Dimensions of crimp barrels and sealing sleeves

Item code	Crimp barrel					Sealing sleeve	
	$\varnothing A$ $\pm 0,05$	$\varnothing B$ $\pm 0,05$	C $\pm 0,25$	D $\pm 0,25$	E max.	As supplied $\varnothing F$ min	Minimum acceptable cable diameter
001 & 004	1,96	1,22	12,7	5,97	0,38	2,16	0,63
002 & 005	2,62	1,70	14,61	6,86	0,51	2,79	0,63
003 & 006	3,81	2,54	14,61	6,86	1,27	4,32	0,63

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5 Tests and requirements

The tests and requirements shall be in accordance with EN 3373-001, except that for test EN 2591-305, T_A shall be $-65\text{ }^{\circ}\text{C}$.

Dielectric withstand voltage, 2 500 volts D.C. for 1 min. The leakage current shall be less than 2 mA.

Insulation resistance shall be greater than 5 000 M Ω .

6 Designation

EXAMPLE

Description block		Identity block	
SEALED IN-LINE SPLICE		EN3373-012-XXX	
Number of this standard _____			
Item code (see Table 1) _____			

NOTE If necessary, the code I9005 may be placed between the description block and the identity block.